Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Claims 1-50 (Cancelled)

- 51. (Currently Amended) The charge pump of claim 68 elaim 50, wherein the charge pump is implemented using CMOS technology.
- 52. (Currently Amended) The charge pump of claim 69 claim 50, wherein the feedback means is coupled to one of the first and second current sources via an adjusting current source.
- 53. (Previously Presented) The charge pump of claim 52, wherein the adjusting current source is coupled between the feedback means and one of the first and second current sources.
- 54. (Currently Amended) The charge pump of <u>claim 69</u> claim 50, wherein the feedback means is coupled directly to one of the first and second current sources.
- 55. (Currently Amended) The charge pump of claim 69 claim 50, wherein the filter is an analog loop filter.
- 56. (Currently Amended) The charge pump of <u>claim 69</u> claim 50, wherein the filter comprises:
 - a resistor;
 - a first capacitor coupled in series with the resistor; and
- a second capacitor coupled in parallel with the resistor and the first capacitor,
- wherein an input to the feedback means is coupled to a node between the resistor and the first capacitor.

57. (Currently Amended) The charge pump of claim 56, wherein:

the feedback means is an amplifier;

the capacitor in the system is coupled between a reference potential and another input of the amplifier, such that the inputs of the amplifier are in static balance with respect to one another.

- 58. (Currently Amended) The charge pump of <u>claim 69</u> claim 50, wherein the feedback means is an amplifier.
- 59. (Currently Amended) The charge pump of <u>claim 68</u> claim 50, wherein the first current path comprises:

the first device is a first switching device; and

the second device is a second switching device,

wherein the first output node is located between the first and second switching devices.

- 60. (Previously Presented) The charge pump of claim 59, wherein the first and second switching devices are transistors.
- 61. (Currently Amended) The charge pump of <u>claim 68 elaim 50</u>, wherein the second current path comprises:

the third device is a first switching device; and

the fourth device is a second switching device,

wherein the second output node is located between the first and second switching devices.

- 62. (Previously Presented) The charge pump of claim 61, wherein the first and second switching devices are transistors.
 - 63.-67. (Cancelled)

68. (New) A charge pump, comprising:

- a first current source;
- a second current source;
- a first current path, including,
- a first device connected at a first end to the first current source and at a second end to a first output node, and
- a second device connected at a first end to the output node and at a second end to the second current source,
 - a second current path, comprising,
- a third device connected at a first end to the first current source and at a second end to a second output node, and
- a fourth device connected at a first end to the second output node and at a second to the second current source; and
- a system that controls a value of the second current source to correct for a voltage difference between the first and second output nodes.
 - 69. (New) The charge pump of claim 68, wherein the system comprises:
- a capacitor connected at a first end to the second output node and at a second end to ground;
 - a filter connected at a first end to the first output node; and
- a feedback means having a first input connected to a second end of the filter, a second input coupled to the first end of the capacitor, and an output coupled to one of the first and second current sources.